

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) Device (1) for providing map information data (3) interactively to a display unit (5) operated by a user;

[[-]] the device (1) comprising a processor (7) and a memory (9) comprising a multi-resolution map information database (11);

[[-]] the multi-resolution map information database (11) comprising map information data (3) representing geographical features, the map information data (3) being based on aggregations of at least one of nodes (15), links (17) and rings (19), each one of which corresponding to geographical features, offering a number of resolution levels, where

[[-]] the map information data (3) of a higher resolution level comprises additional map information data, resulting in more detailed map information (3) presented on the display unit (5), compared to the map information data (3) of a lower resolution level, and

[[-]] the map information data (3) of a higher resolution level being generated by enhancement of the map information data (3) of a lower resolution level combined with the additional data, the enhancement being based on disaggregation of at least one of the nodes (15), links (17) and rings (19);

the processor (7) being configured for:

[[-]] receiving from the user a request for map information data (3);

[[-]] providing to the display unit (5), in the case of the request being a first request, map information data (3) at a predetermined resolution level and, in the case of the request being a subsequent request, map information data (3) at a higher resolution level.

2. (Original) Device according to claim 1, wherein the predetermined resolution level corresponds to the lowest resolution level.

3. (Currently Amended) Device according to claim 1, wherein the processor (7) is further configured for, in the case of the request being [[a]] another subsequent request, providing map information data (3) at a lower resolution level.
4. (Currently Amended) Device according to claim 1, wherein, in the case of the request being subsequent request, the difference in resolution level between a presently provided map information data (3) and a previously provided map information data (3) is 1, or greater than 1.
5. (Currently Amended) Device according to claim 1, further comprising communication means (23) and wherein the memory (9) comprising the multi-resolution map information database (11) is remotely located and accessible using the communication means (23).
6. (Currently Amended) Device according to claim 1, further comprising communication means (23) and wherein the multi-resolution map information database (11) is arranged in memories (7) at two locations, in which lower resolution levels are arranged in one memory (7) and higher resolution levels are arranged in the other memory (7).
7. (Currently Amended) Device according to claim 1, wherein the display unit (5) is constituted by a computer screen.
8. (Currently Amended) Device according to claim 1, further comprising communication means (23) between the device (1) and the display unit (5), and the display unit (5) being constituted by one of a cell phone, personal digital assistant (PDA), an a navigator.

9. (Currently Amended) A map information data carrier to be used in a device for providing map information data, comprising a multi-resolution map information database (11) comprising map information data (3) representing geographical features, the map information data (3) being based on aggregations of at least one of nodes (15), links (17) and rings (19), each one of which corresponding to geographical features, offering a number of resolution levels, where

[[-]] the map information data (3) of a higher resolution level comprises additional map information data (3), resulting in more detailed map information presented on the display unit (5), compared to the map information data (3) of a lower resolution level, and

[[-]] the map information data (3) of a higher resolution level being generated by enhancement of the map information data (3) of a lower resolution level combined with the additional data, the enhancement being based on disaggregation of at least one of the nodes (15), links (17) and rings (19); and

a processor that receives a request for the map information data and provides the map information data at a predetermined resolution to the display unit.

10. (Currently Amended) Device for providing map information data to a planning apparatus (33) for planning at least one of locations of society facility and travel routes;

[[-]] the device (31) comprising a processor (7) and a memory (9) comprising a multi-resolution map information database (11);

[[-]] the map multi-resolution information database (11) comprising map information data (3) representing geographical features, the map information data (3) being based on aggregations of at least one of nodes (15), links (17) and rings (19), each one of which corresponding to geographic features, offering a number of resolution levels, where

[[-]] the map information data (3) of a higher resolution level comprises additional map information data, resulting in more detailed map information, compared to the map information data (3) of a lower resolution level, and

[[-]] the map information data (3) of a higher resolution level being generated by enhancement of the map information data (3) of a lower resolution level combined with the additional data, the enhancement being based on disaggregation of at least one of nodes (15), links (17) and rings (19);

the processor (7) being configured for:

[[-]] receiving from the user a request for map information data (3);

[[-]] providing to the planning apparatus (33), in the case of the request being a first request, map information data (3) at a predetermined resolution level and, in the case of the request being a subsequent request, map information data (3) at a higher resolution level.